

ABSTRACT OF THE DISCLOSURE

Methods and systems for managing and analyzing multi-dimensional data are provided. Example embodiments provide a Meta-Object Data Management System "MODMS," which enables users to arrange and to rearrange the hierarchical relationships of the data on an ad-hoc basis and allows the data to be analyzed using any set of attributes (dimensions) while the system is running. The MODMS represents heterogeneous data in a normalized (standardized) fashion using an object type management system that allows the arbitrary coercion of one type of object into another different type of object and automatically resolves attribute dependencies. In one embodiment, the MODMS comprises an object type management subsystem; a meta-object instantiation subsystem; one or more data repositories that hold, for example, the data used to populate objects and object type definitions; and an input/output interface. These components cooperate to allow the creation, management, and analysis of relationships between many different types of single and multi-dimensional data. In one embodiment, the MODMS is used to implement an enterprise portfolio management system.

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